

# Lunar Flywheel weekly meeting- Minutes

## Wednesday; October 05, 2016; 3:30pm

---

Present: Dr. Herb Hess, Dr. Feng Li, Justin Pettingill, David Arnett, Nick Bachus, Matt Phillips, Kyle Petersen, Cooper Atkinson, Ian Tanimoto, Andrew Jones, Brian Cartwright, Shea Morrison

Absent: None

GJ 218 Conference Room

Moderator: Kyle Peterson

Minutes: Andrew Jones

Updates:

### Stator Design

Scheduling a group meeting on Thursday at 3:30pm (library) to discuss laying out model framework

Kyle and Nick have been working with Justin on strain testing for chopped fiber toroid

Electrical team will perform controls on an iron core with known permeability

### Controls

Analyzing existing code – most student-written code in main.c files

Update from weekly Tuesday Meeting with Dr. Berven

### Expectations (for larger project content)

Finalize the Low Speed model so we can focus exclusively on the High Speed model

Test existing code

Fully understand control structures (rotation algorithm, current control)

Justin and David are looking into getting a SimScape license for Simulink for simulating the overall model

### Other Updates

Discussed budget with Dr. Hess (budget authority being transferred from Law to Hess)

### Senior Design Items

Snapshot Day is Tuesday, Oct 11 (GJ 102)

Focus on project definition and outline

Logbook Review – turn in to Dr. Li by COB Friday, Oct 14

Presentations for theses sections

Andrew Jones – Kisling Chapter 6 – AMB Control System

Brian Cartwright – Energy Transfer / FRRM Control

Shea Morrison – Passive and Active Magnetic Bearings

Ian Tanimoto – Kisling Chapter 5 – Control Algorithms

Next week: